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# SONY

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# SONY

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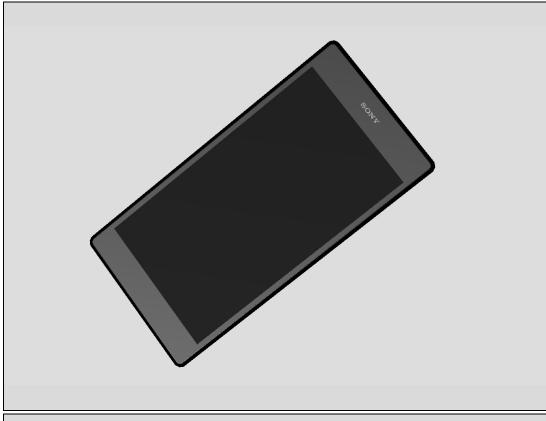
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For general information about mechanical repair related issues, refer to 1220-1333: Generic Repair Manual - mechanical



# **Exterior Views**

# 1.1 C6902, C6903, C6906, L39h





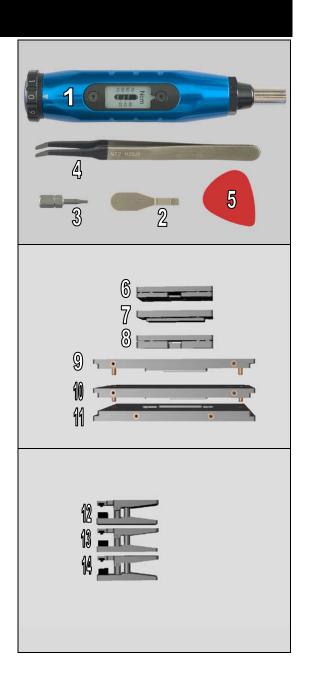


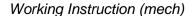
# 2 Tools

#### **SPECIAL TOOLS**

- 1. Torque Screwdriver
- 2. Front Opening Tool
- 3. Torx Bits T4
- 4. Flex Film Assembly Tool
- 5. Guitar Pick
- 6. Front Cover Adhesive fixture
- 7. Rear Cover Adhesive fixture
- 8. Window Back Adhesive fixture
- 9. Rear Cover Press Inlay
- 10. Window Back Press Inlay
- 11. Bottom Press Inlay

- 12. Press Tool Earspeaker
- 13. Press Tool Loudspeaker
- 14. Audio Jack press

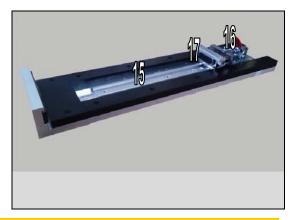






### **Tools**

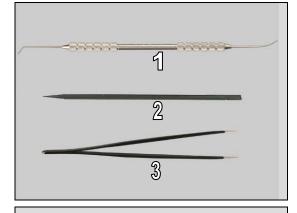
- 15. Side Panel press
- 16. Side Panel Press Head
- 17. Charge connector press pad



For part not on the tools above, refer to the 'Tools Catalogue/Matrix'!

#### **STANDARD TOOLS**

- 1. Dentist Hook
- 2. Nylon Pointer
- 3. Tweezer





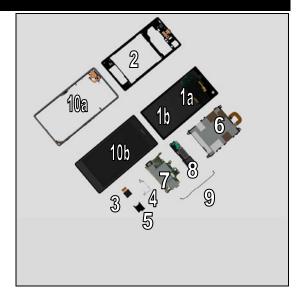
4. Suction cup



#### C6902, C6903, C6906, L39h

The Disassembly is done to the following modules:

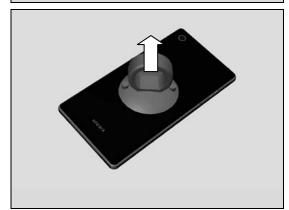
- 1. Window Back (a) and Sheet Battery (b)
- 2. Rear Cover Assy
- 3. Camera
- 4. Shield Camera
- 5. SIM Tray
- 6. Battery
- 7. Main PBA
- 8. Loudspeaker Holder
- 9. RF Cable A
- 10. Main Frame Assy (a) and Front Cover (b)

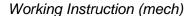


# 3.1 Window Back and Sheet Battery



Use Suction cup to get space for inserting the Guitar Pick.

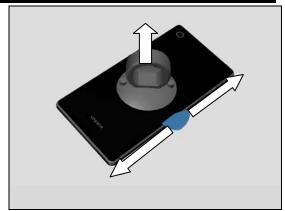




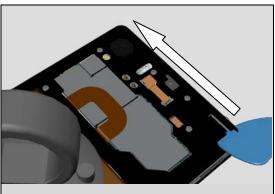


Gently slide the Guitar Pick along to release all sides of the Back Panel Assy.

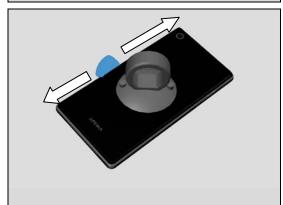
Note! Start in the middle of the right long side!



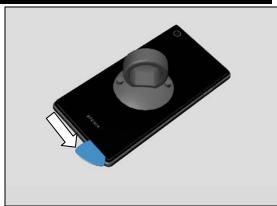
Note! Be careful not to damage flexes when using plectrum on the top of phone!











Remove the Window Back by using the Suction cup.

Note! Be careful when removing the Window back due to the adhesive between battery and Window Back.

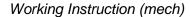


### 3.2 Rear Cover Assy

Remove the nine Screw 3.5x1.4 by using a screwdriver with Torx Bits T4.





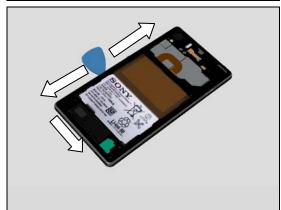




Use a plectrum to detach right side and the top of the phone



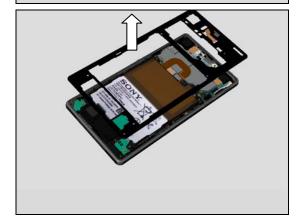
Use a plectrum to detach left side and the bottom of the phone



Use a Front Opening Tool to disconnect the BtB connector.

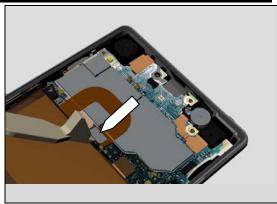


Remove the Rear Cover Assy with fingers



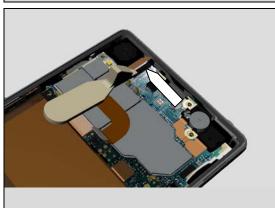


Use a Front Opening Tool to disconnect the BtB connector.

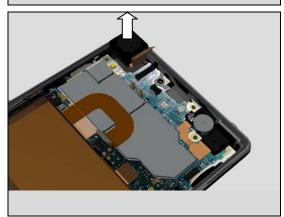


### 3.3 Camera

Use a Front Opening Tool to disconnect the BtB connector.

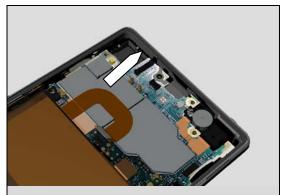


Remove the Camera with fingers.



#### 3.4 Shield Camera

Remove the Shield Camera with fingers.

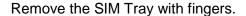




Remove it.



Open SIM Cap.

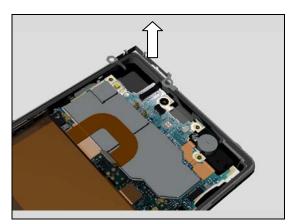


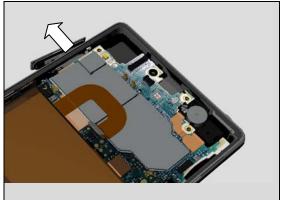
### 3.6 Battery

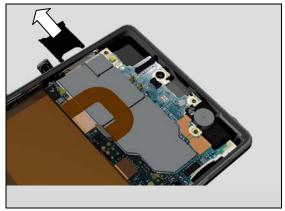
Remove the Battery with fingers.

Carefully inspect the Battery after removing it.

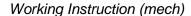
Battery with visual signs of been punctured etc. should be scraped after removal!







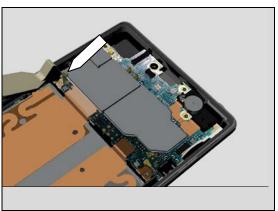






### 3.7 Main PBA

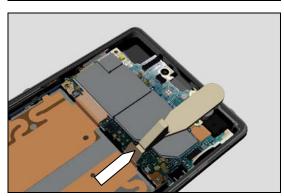
Use a Front Opening Tool to disconnect the Cable RF B



Use a Front Opening Tool to disconnect the Cable RF A



Use a Front Opening Tool to disconnect the FPC Assembly Charge

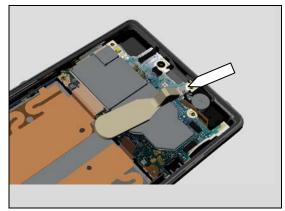


Use a Front Opening Tool to disconnect the FPC Assembly Audio Jack





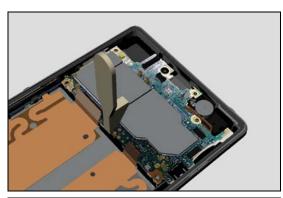
Use a Front Opening Tool to disconnect the Vibrator



Use a Front Opening Tool to disconnect the FPC Assembly Relay



Use a Front Opening Tool to lift up the Main PBA.

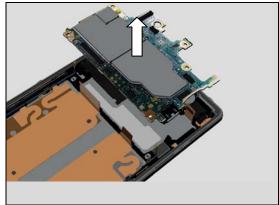


Use a Front Opening Tool to lift up the Main PBA.



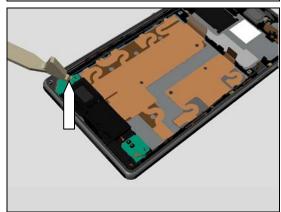


Remove the Main PBA with fingers

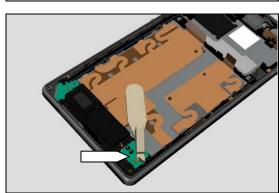


### 3.8 Loudspeaker Holder

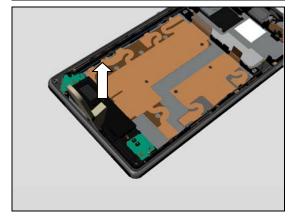
Use a Front Opening Tool to disconnect the Cable RF B



Use a Front Opening Tool to disconnect the Cable RF A

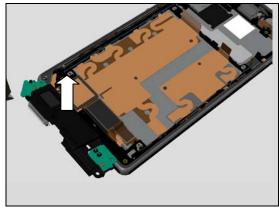


Use a Front Opening Tool to lift up the Loudspeaker Holder.



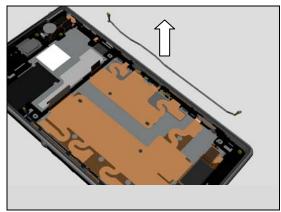


Remove the Loudspeaker Holder with fingers.



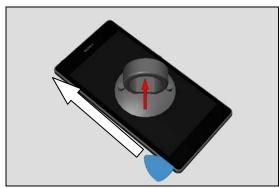
#### 3.9 RF Cable A

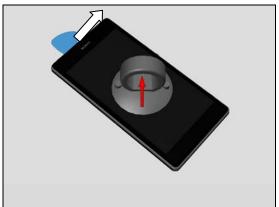
Use a pair of tweezers to remove the RF Cable A



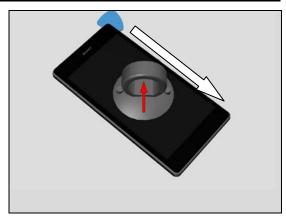
# 3.10 Main Frame Assy and Front Cover

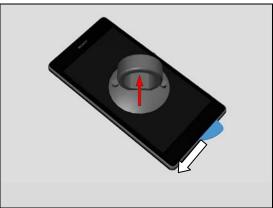
Use Suction cup to get space for inserting the Guitar Pick. Gently slide the Guitar Pick along to release all sides of the Main Frame Assy.





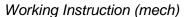








Remove the Front Cover from Main Frame Assy





#### 4.1 Window Back

Follow the 3.1 Disassembly instructions!

Note! If reuse of Window Back follow 4.19 Removal Instruction

Prepare a new Window Back.

Note! If reuse of Window Back follow 4.19 Installation Instruction

Follow the 5.11 Reassembly instructions!



### 4.2 Sheet Battery

Follow the 3.1 Disassembly instructions and use a Flex Film Assembly Tool for removing it from Window Back!
Prepare a new Sheet Battery
Follow the 5.10 and 5.11 Reassembly instructions!



### 4.3 Rear Cover Assy

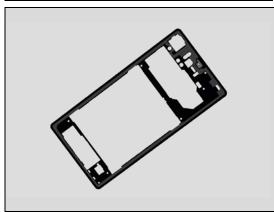
Follow the 5.9 - 5.11 Reassembly instructions!

Follow the 3.1 and 3.2 Disassembly instructions!

Note! If reuse of Rear Cover Assy follow 4.15 Removal Instruction

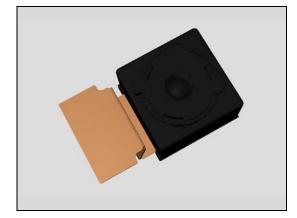
Prepare a new Rear Cover Assy.

Note! If reuse of Rear Cover Assy follow 4.15 Installation Instruction



#### 4.4 Camera

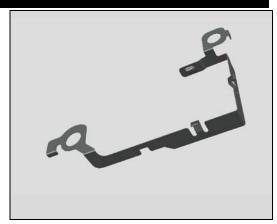
Follow the 3.1- 3.3 Disassembly instructions! Prepare a new Camera.
Follow the 5.8 - 5.11 Reassembly instructions!





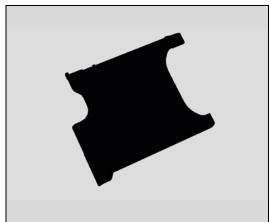
#### 4.5 Shield Camera

Follow the 3.1 - 3.5 Disassembly instructions! Prepare a new Shield Camera. Follow the 5.7 - 5.11 Reassembly instructions!



### 4.6 SIM Tray

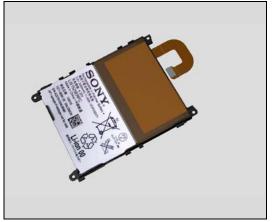
Follow the 3.5 Disassembly instructions! Prepare a new SIM Tray. Follow the 5.6 Reassembly instructions!



## 4.7 Battery

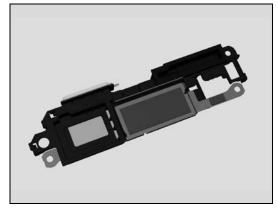
Follow the 3.1-3.2 and 3.6 Disassembly instructions! Prepare a new Battery.

Follow the 5.5 and 5.9-5.11 Reassembly instructions!



### 4.8 Loudspeaker Holder

Follow the 3.1 – 3.2, 3.6 and 3.8. Disassembly instructions! Follow the 4.38, 4.40 and 4.41 Removal instructions! Carry out the Removal as described below! Prepare a new Loudspeaker Holder Carry out the Installation as described below! Follow the 4.38, 4.40 and 4.41 Installation instructions! Follow the 5.3, 5.5 and 5.9 - 5.11 Reassembly instructions!

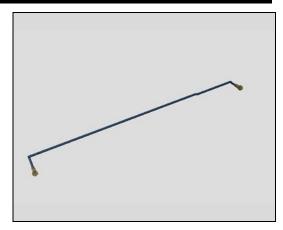




#### 4.9 RF Cable A

Follow the 3.1 - 3.2, 3.6 and 3.9 Disassembly instructions! Prepare a new RF Cable A.

Follow the 5.2, 5.5 and 5.9-5.11 Reassembly instructions!



## 4.10 Main Frame Assy

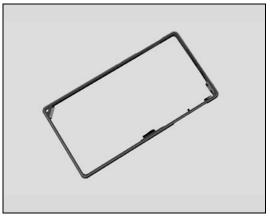
Follow the 3.1-3.10 Disassembly instructions!

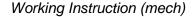
Note! If reuse of Main Frame Assy follow 4.17 Removal Instruction

Prepare a new Main Frame Assy.

Note! If reuse of Main Frame Assy follow 4.17 Installation Instruction

Follow the 5.1-5.11 Reassembly instructions!

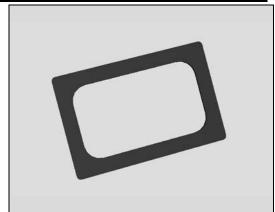






### 4.11 Adhesive Earspeaker

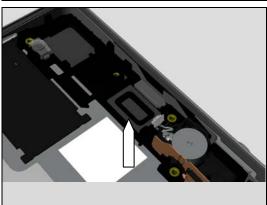
Follow the 3.1 – 3.7 Disassembly instructions! Follow the 4.28 Removal instructions! Carry out the Removal as described below! Prepare a new Adhesive Earspeaker! Carry out the Installation as described below! Follow the 4.28 Installation instructions! Follow the 5.4 - 5.11 Reassembly instructions!



#### **REMOVAL**

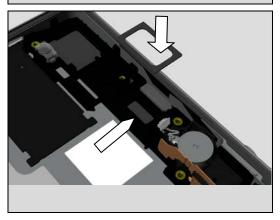
Detach to remove the Adhesive Earspeaker with the Dentist Hook.

Scrap! Not to be reused!



#### **INSTALLATION**

Place a new Adhesive Earspeaker using a Flex Film Assembly Tool.





# 4.12 Adhesive FPC Relay Bottom

Follow the 3.1 – 3.10 Disassembly instructions! Follow the 4.32 Removal instructions! Carry out the Removal as described below! Prepare a new Adhesive FPC Relay Bottom! Carry out the Installation as described below! Follow the 4.32 Installation instructions! Follow the 5.1 - 5.11 Reassembly instructions!

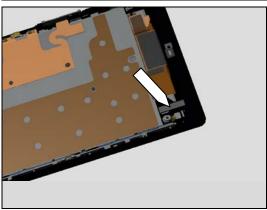
#### **REMOVAL**

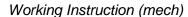
Detach to remove the Adhesive FPC Relay Bottom with a pair of tweezers.

Scrap! Not to be reused!



Place a new Adhesive FPC Relay Bottom using a Flex Film Assembly Tool.

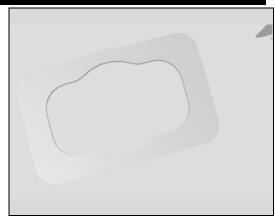






#### 4.13 Adhesive WP Audio Jack

Follow the 3.1 – 3.10 Disassembly instructions! Follow the 4.29 Removal instructions! Carry out the Removal as described below! Prepare a new Adhesive WP Audio Jack! Carry out the Installation as described below! Follow the 4.29 Installation instructions! Follow the 5.1 - 5.11 Reassembly instructions!



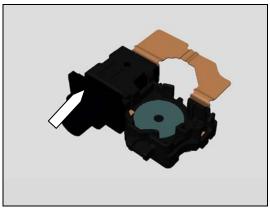
#### **REMOVAL**

Remove the Adhesive WP Audio Jack with the Flex Film Assembly Tool.

Scrap! Not to be reused!

#### **INSTALLATION**

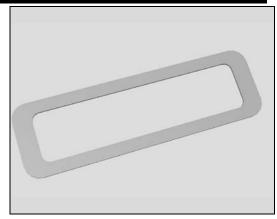
Place a new Adhesive WP Audio Jack with Flex Film Assembly Tool.





### 4.14 Adhesive WP Camera Key

Follow the 3.1 – 3-10 Disassembly instructions! Carry out the Removal as described below! Prepare a new Adhesive WP Camera Key! Carry out the Installation as described below! Follow the 5.1 - 5.11 Reassembly instructions!



#### **REMOVAL**

Detach to remove the Gasket Camera Key with the Flex Film Assembly Tool.

Note! Please be careful when disassembly because this gasket needs to be reused!

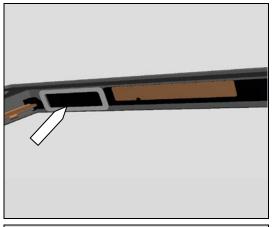


Detach to remove the Adhesive WP Camera Key with the Dentist Hook.

Scrap! Not to be reused!

#### **INSTALLATION**

Place a new Adhesive WP Camera Key on the Main Frame Assy using a Flex Film Assembly Tool.

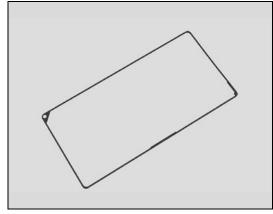






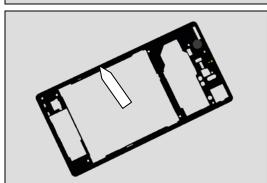
#### 4.15 Adhesive WP Cover Rear

Follow the 3.1 and 3.2 Disassembly instructions! Carry out the Removal as described below! Prepare a new Adhesive WP Cover Rear! Carry out the Installation as described below! Follow the 5.9 - 5.11 Reassembly instructions!



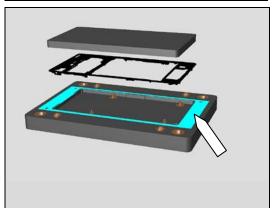
#### **REMOVAL**

Remove the Adhesive WP Cover Rear with fingers. Scrap! Not to be reused!



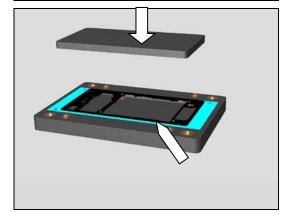
#### **INSTALLATION**

Place a new Adhesive WP Cover Rear with fingers in the Rear Cover Adhesive fixture (Bottom Part).



Then place the old Rear Cover Assy above Adhesive WP Cover Rear Important to make sure that old adhesive is removed before installation because of WRT requirement!

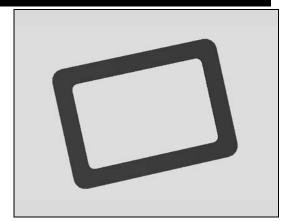
Place the Upper part of the fixture and press by hand for 10 sec





# 4.16 Adhesive WP Loudspeaker

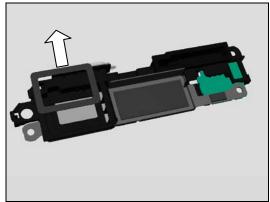
Follow the 3.1 – 3.2, 3.6 and 3.8. Disassembly instructions! Follow the 4.38 Removal instructions!
Carry out the Removal as described below!
Prepare a new Adhesive WP Loudspeaker!
Carry out the Installation as described below!
Follow the 4.38 Installation instructions!
Follow the 5.3, 5.5 and 5.9 - 5.11 Reassembly instructions!



#### **REMOVAL**

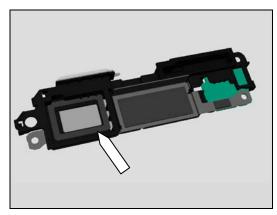
Detach to remove the Adhesive WP Loudspeaker with a Dentist Hook.

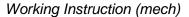
Scrap! Not to be reused!



#### **INSTALLATION**

Place a new Adhesive WP Loudspeaker by using a Flex Film Assembly Tool.

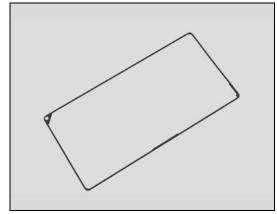






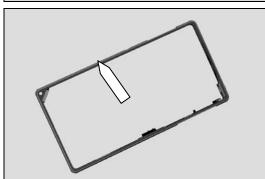
# **4.17 Adhesive WP Main Frame Assy**

Follow the 3.1 - 3.10 Disassembly instructions! Carry out the Removal as described below! Prepare a new Adhesive WP Main Frame Assy! Carry out the Installation as described below! Follow the 5.1 - 5.11 Reassembly instructions!



#### **REMOVAL**

Remove the Adhesive WP Main Frame Assy with fingers. Scrap! Not to be reused!



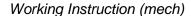
#### **INSTALLATION**

Take the Bottom Part of the Main Frame Assy Adhesive fixture



Place a new Adhesive WP Main Frame Assy with fingers in the Main Frame Assy Adhesive fixture (Bottom Part)





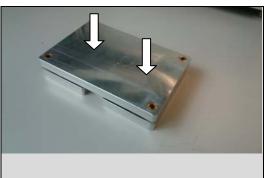


Then place the old Main Frame Assy above the Adhesive WP Main Frame Assy

Important to make sure that old adhesive is removed before installation because of WRT requirement!



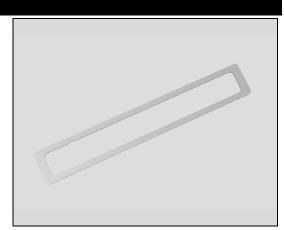
Place the Upper part of the fixture and press by hand for 10 sec





### 4.18 Adhesive WP Side Key

Follow the 3.1 - 3.10 Disassembly instructions! Follow the 4.35 Removal instructions! Carry out the Removal as described below! Prepare a new Adhesive WP Side Key! Carry out the Installation as described below! Follow the 4.35 Installation instructions! Follow the 5.1 - 5.11 Reassembly instructions!



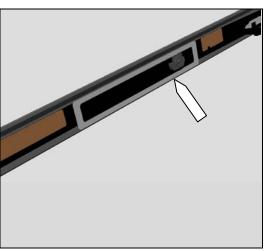
#### **REMOVAL**

Detach to remove the Adhesive WP Side Key with the Dentist Hook.

Scrap! Not to be reused!

#### **INSTALLATION**

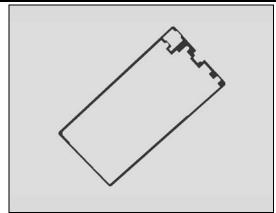
Place a new Adhesive WP Side Key on the Main Frame Assy using a Flex Film Assembly Tool.





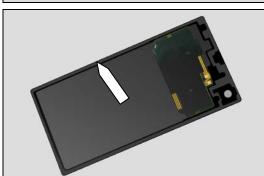
# 4.19 Adhesive WP Window Back

Follow the 3.1 Disassembly instructions!
Carry out the Removal as described below!
Prepare a new Adhesive WP Window Back!
Carry out the Installation as described below!
Follow the 5.10 and 5.11 Reassembly instructions!



#### **REMOVAL**

Remove the Adhesive WP Window Back with fingers. Scrap! Not to be reused!

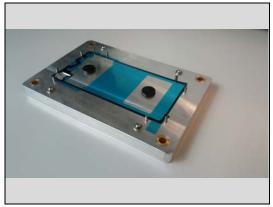


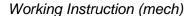
#### **INSTALLATION**

Take the Bottom Part of the Window Back Adhesive fixture



Place a new Adhesive WP Window Back with fingers in the Window Back Adhesive fixture (Bottom Part)







Then place the old Window Back above the Adhesive WP Window Back

Important to make sure that old adhesive is removed before installation because of WRT requirement!



Place the Upper part of the fixture and press by hand for 10 sec

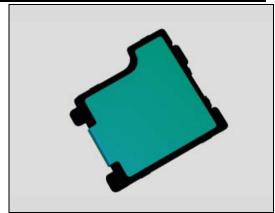






#### 4.20 BT + WLAN Flex Antenna

Follow the 3.1 Disassembly instructions!
Carry out the Removal as described below!
Prepare a new BT + WLAN Flex Antenna!
Carry out the Installation as described below!
Follow the 5.10 and 5.11 Reassembly instructions!



#### **REMOVAL**

Remove the BT + WLAN Flex Antenna with the Flex Film Assembly Tool.



#### **INSTALLATION**

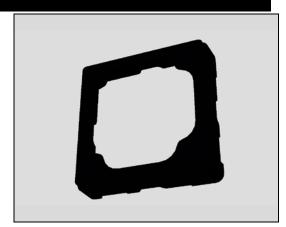
Place a new BT + WLAN Flex Antenna with fingers.





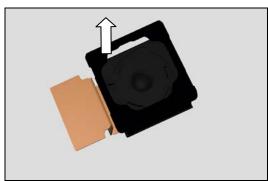
#### 4.21 Camera Holder

Follow the 3.1 - 3.3 Disassembly instructions! Carry out the Removal as described below! Prepare a new Camera Holder! Carry out the Installation as described below! Follow the 5.8 - 5.11 Reassembly instructions!



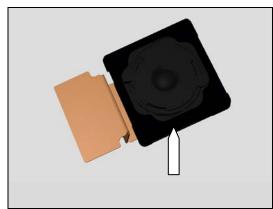
#### **REMOVAL**

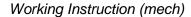
Remove the Camera Holder with fingers.



#### **INSTALLATION**

Attach the Camera Holder with fingers.

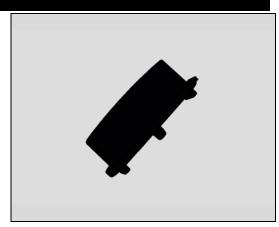






### 4.22 Camera Key

Follow the 3.1 – 3.10 Disassembly instructions! Carry out the Removal as described below! Prepare a new Camera Key! Carry out the Installation as described below! Follow the 5.1 - 5.11 Reassembly instructions!

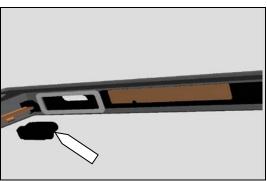


#### **REMOVAL**

Pull to remove the Camera Key with fingers

#### **INSTALLATION**

Insert a new Camera Key with fingers







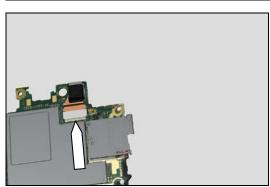
#### 4.23 Chat Camera

Follow the 3.1 - 3.7 Disassembly instructions! Carry out the Removal as described below! Prepare a new Chat Camera! Carry out the Installation as described below! Follow the 5.4 - 5.11 Reassembly instructions!

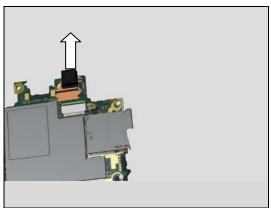


#### **REMOVAL**

Open the Zif contact with a Nylon pointer.

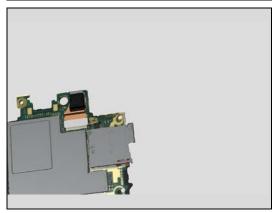


Use the Flex Film Assembly Tool to loosen the Chat Camera flex then use the Front Opening Tool to remove the Chat Camera.



#### **INSTALLATION**

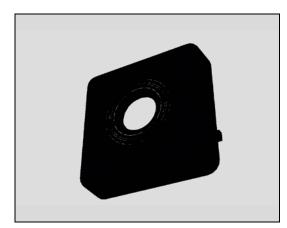
Use the Flex Film Assembly Tool and attach the flex to Zif contact. Then use fingers for position the new Chat Camera in the cavity.





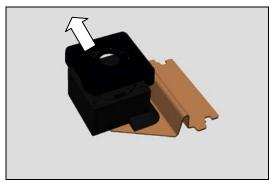
### 4.24 Chat Camera Holder

Follow the 3.1 - 3.7 Disassembly instructions! Carry out the Removal as described below! Prepare a new Chat Camera Holder! Carry out the Installation as described below! Follow the 5.4 - 5.11 Reassembly instructions!



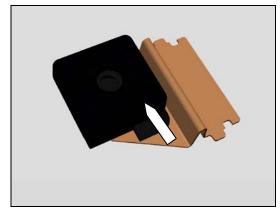
#### **REMOVAL**

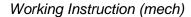
Remove the Chat Camera Holder with fingers.



#### **INSTALLATION**

Attach a new Chat Camera Holder with fingers.

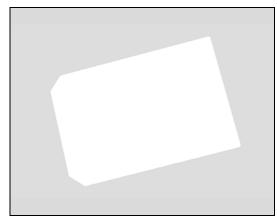






### 4.25 Core Unit Label

Carry out the Removal as described below! Prepare a new Core Unit Label! Carry out the Installation as described below!

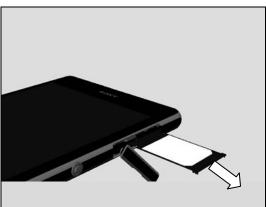


#### **REMOVAL**

Open SIM Cap with fingers

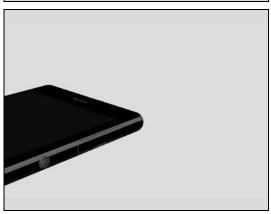


Pull out the Tray Core Unit Label with fingers and remove the label with a Dentist Hook.



#### **INSTALLATION**

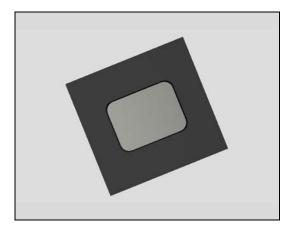
Attach a new Core Unit Label with fingers on the Tray Core Unit Label. Close the SIM Cap.





### 4.26 Cushion 1<sup>st</sup> Mic

Follow the 3.1 – 3-10 Disassembly instructions! Carry out the Removal as described below! Prepare a new Cushion 1<sup>st</sup> Mic! Carry out the Installation as described below! Follow the 5.1 - 5.11 Reassembly instructions!

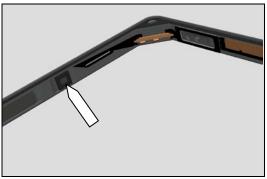


#### **REMOVAL**

Remove the Cushion 1<sup>st</sup> Mic with Dentist Hook. Scrap! Not to be reused!

#### **INSTALLATION**

Attach a new Cushion 1<sup>st</sup> Mic with the Flex Film Assembly Tool.

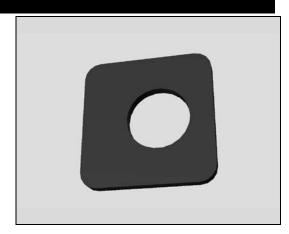






# 4.27 Cushion 2<sup>nd</sup> Mic

Follow the 3.1 - 3.2 Disassembly instructions! Follow the 4.31 Removal instructions! Carry out the Removal as described below! Prepare a new Cushion 2<sup>nd</sup> Mic! Carry out the Installation as described below! Follow the 4.31 Installation instructions! Follow the 5.9 - 5.11 Reassembly instructions!

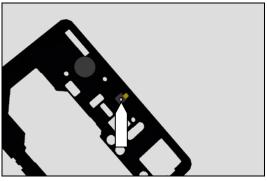


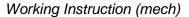
#### **REMOVAL**

Remove the Cushion 2<sup>st</sup> Mic with Dentist Hook. Scrap! Not to be reused!

#### **INSTALLATION**

Attach a new Cushion 2<sup>st</sup> Mic with the Flex Film Assembly Tool.

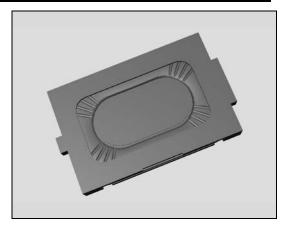






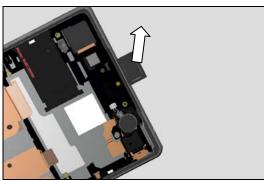
# 4.28 Ear Speaker

Follow the 3.1 – 3.7 Disassembly instructions! Follow the 4.11 Removal instructions! Carry out the Removal as described below! Prepare a new Ear Speaker! Carry out the Installation as described below! Follow the 4.11 Installation instructions! Follow the 5.4 - 5.11 Reassembly instructions!



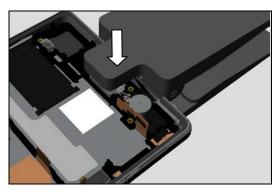
#### **REMOVAL**

Remove the Ear Speaker using Front Opening Tool. Scrap! Not to be reused!



#### **INSTALLATION**

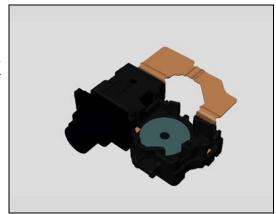
Place a new Ear Speaker with fingers Use Press Tool Earspeaker and press for 10s.





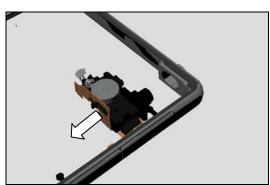
# 4.29 FPC Assembly Audio Jack

Follow the 3.1 – 3.10 Disassembly instructions! Carry out the Removal as described below! Prepare a new FPC Assembly Audio Jack! Carry out the Installation as described below! Follow the 5.1 - 5.11 Reassembly instructions!



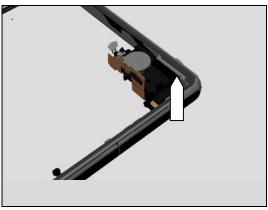
#### **REMOVAL**

Detach to remove the FPC Assembly Audio Jack with fingers.

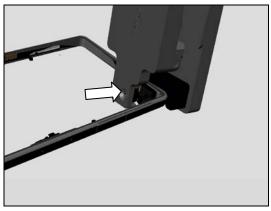


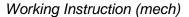
#### **INSTALLATION**

Place a new FPC Assembly Audio Jack with fingers.



Use Audio Jack Press and press for 10s.

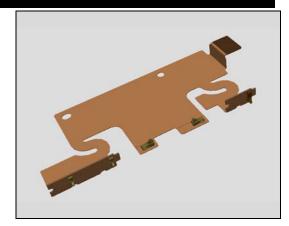






# 4.30 FPC Assembly Charger

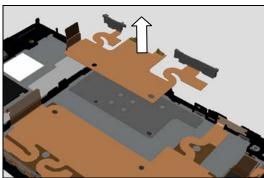
Follow the 3.1 – 3.10 Disassembly instructions! Follow the 4.46 Removal instructions! Carry out the Removal as described below! Prepare a new FPC Assembly Charger! Carry out the Installation as described below! Follow the 4.46 Installation instructions! Follow the 5.1 - 5.11 Reassembly instructions!



#### **REMOVAL**

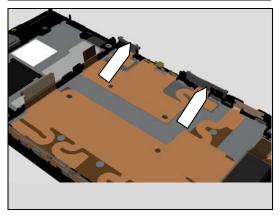
Remove the FPC Assembly Charger with the Flex Film Assembly Tool.

Not! Be very careful because flex could be reused if no damage!



#### **INSTALLATION**

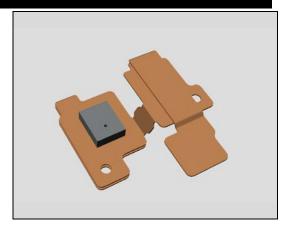
Start by placing the buttons of the new FPC Assembly Charger with a Flex Film Assembly Tool before assembly the flex.





# 4.31 FPC Assembly Mic

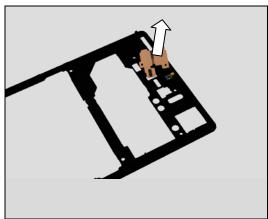
Follow the 3.1 – 3.2 Disassembly instructions! Carry out the Removal as described below! Prepare a new FPC Assembly Mic! Carry out the Installation as described below! Follow the 5.9 - 5.11 Reassembly instructions!



#### **REMOVAL**

Detach to remove the FPC Assembly Mic with the Flex Film Assembly Tool and fingers.

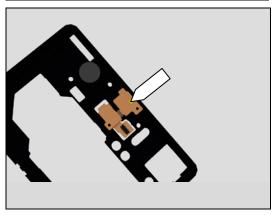
Scrap! Not to be reused!



#### **INSTALLATION**

Place a new FPC Assembly Mic using a Flex Film Assembly Tool.

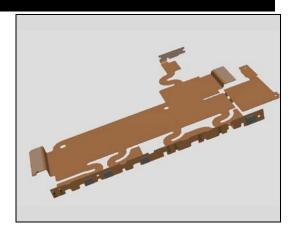
Note! Press for 10s to activate the adhesive around microphone





# 4.32 FPC Assembly Relay

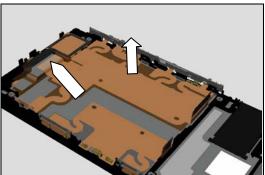
Follow the 3.1-3.10 Disassembly instructions!
Follow the 4.47 Removal instructions!
Carry out the Removal as described below!
Prepare a new FPC Assembly Relay!
Follow the 4.47 Installation instructions!
Carry out the Installation as described below!
Follow the 5.1 - 5.11 Reassembly instructions!



#### **REMOVAL**

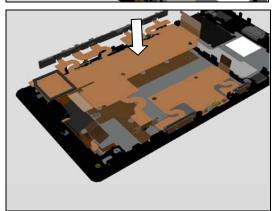
Start by disconnect the BtB connector against Display flex. Then remove the FPC Assembly Relay with the Flex Film Assembly Tool.

Not! Be very careful because flex could be reused if no damage!



#### **INSTALLATION**

Start by placing the buttons of the new FPC Assembly Relay with a Flex Film Assembly Tool before assembly the flex. Connect BtB connector against Display flex.





make.believe

Working Instruction (mech)

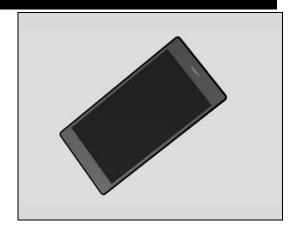
# Replacement

### 4.33 Front Cover

Follow the 3.1 - 3.10 Disassembly instructions! Follow the 4.22, 4.28, 4.30, 4.32 and 4.54 Removal instructions!

Carry out the Removal as described below! Prepare a new Front Assembly! Carry out the Installation as described below! Follow the 4.22, 4.28, 4.30, 4.32 and 4.54 Installation instructions!

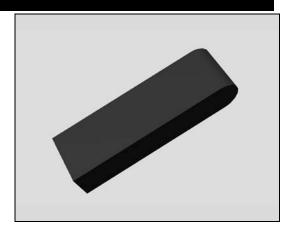
Follow the 5.1 - 5.11 Reassembly instructions!





### 4.34 Gasket Charger

Follow the 3.1- 3.10 Disassembly instructions! Carry out the Removal as described below! Prepare a new Gasket Charger! Carry out the Installation as described below! Follow the 5.1 - 5.11 Reassembly instructions!

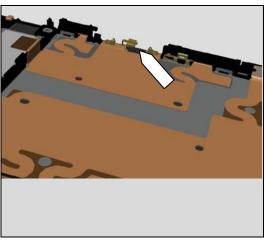


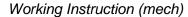
#### **REMOVAL**

Detach to remove the Gasket Charger with a Dentist Hook. Scrap! Not to be reused!

#### **INSTALLATION**

Place a new Gasket Charger using a Flex Film Assembly Tool.

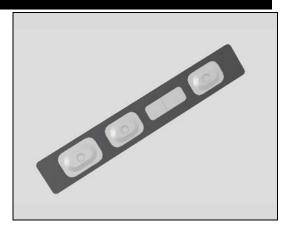






### 4.35 Gasket Side Key

Follow the 3.1- 3.10 Disassembly instructions! Follow the 4.18 Removal instructions! Carry out the Removal as described below! Prepare a new Gasket Side Key! Carry out the Installation as described below! Follow the 4.18 Installation instructions! Follow the 5.1 - 5.11 Reassembly instructions!

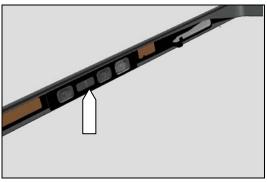


#### **REMOVAL**

Remove the Gasket Side Key with the Flex Film Assembly Tool.

#### **INSTALLATION**

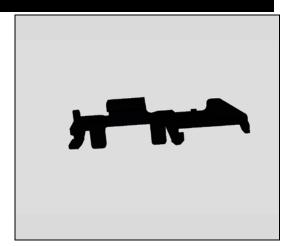
Place a new Gasket Side Key using a Flex Film Assembly Tool.





# **4.36 Holder Magnetic Charger Connector**

Follow the 3.1 - 3.6 and 3.9 Disassembly instructions! Carry out the Removal as described below! Prepare a new Holder Magnetic Charger Connector! Carry out the Installation as described below! Follow the 5.2, 5.5 and 5.9-5.11 Reassembly instructions!

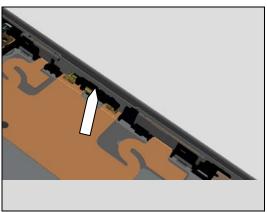


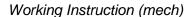
#### **REMOVAL**

Detach to remove Holder Magnetic Charger Connector with a pair of tweezers.

#### **INSTALLATION**

Place a new Holder Magnetic Charger Connector using a pair of tweezers.

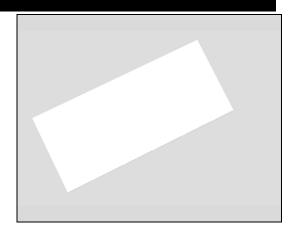






### 4.37 Liquid indicator

Carry out the Removal as described below! Prepare a new Liquid indicator! Carry out the Installation as described below!

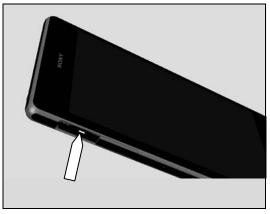


#### **REMOVAL**

Detach to remove the Liquid indicator with a Dentist Hook Scrap! Not to be reused!

#### **INSTALLATION**

Place a new Liquid indicator follow the guiding lines on the Rear Cover Assy using a Front Assembly Tool.

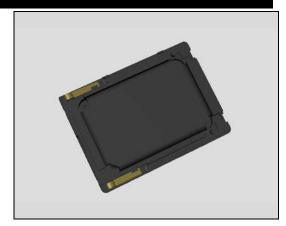






### 4.38 Loudspeaker

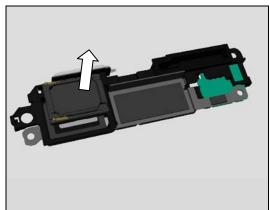
Follow the 3.1 – 3.2, 3.6 and 3.8 Disassembly instructions! Follow the 4.16 Removal instructions!
Carry out the Removal as described below!
Prepare a new Loudspeaker!
Carry out the Installation as described below!
Follow the 4.16 Installation instructions!
Follow the 5.3, 5.5 and 5.9 - 5.11 Reassembly instructions!



#### **REMOVAL**

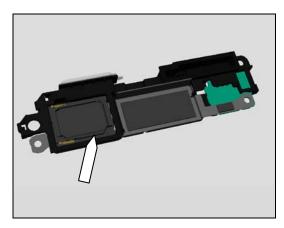
Detach to remove the Loudspeaker with the Front Opening Tool.

Scrap! Not to be reused!



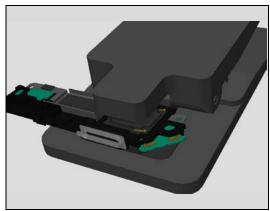
#### **INSTALLATION**

Place a new Loudspeaker by using fingers



Press to secure its attachment by using Press Tool Loudspeaker for five seconds.

Do not touch the contact pins!

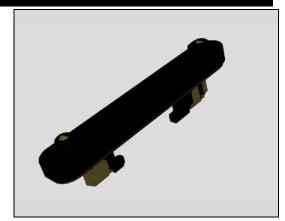






# 4.39 Magnetic charger connector

Follow the 3.1 - 3.6 and 3.9 Disassembly instructions!
Follow the 4.36 Removal instructions!
Carry out the Removal as described below!
Prepare a new Magnetic charger connector!
Carry out the Installation as described below!
Follow the 4.36 Installation instructions!
Follow the 5.2, 5.5 and 5.9-5.11 Reassembly instructions!

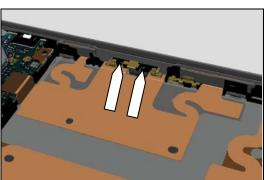


#### **REMOVAL**

Push the two pads of *Magnetic charger connector by using* Flex Film Assembly Tool.

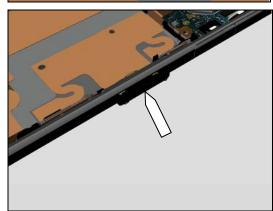
Scrap! Not to be reused!

Be careful! Do not damage the two pins of FPC charger.



#### **INSTALLATION**

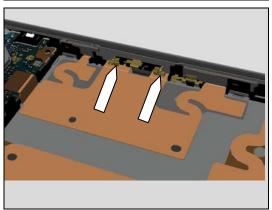
Mount a new Magnetic charger connector by fingers.



Check and press the two pins into its cavities by using the Front Opening Tool.

Be careful! Do not damage the two pins of FPC charger.

Then use Side Panel press, Side Panel Press Head and Charge connector press pad with the force of 60N for five seconds. According to 1003-9107 Tool Catalogue – mechanical and document Side Panel press Instruction for use.

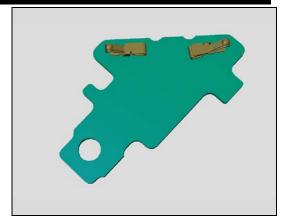






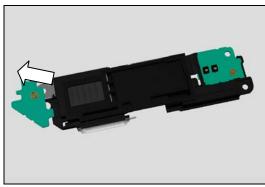
### 4.40 PBA Cellular Sub

Follow the 3.1 – 3.2, 3.6 and 3.8 Disassembly instructions! Carry out the Removal as described below! Prepare a new PBA Cellular Sub! Carry out the Installation as described below! Follow the 5.3, 5.5 and 5.9 - 5.11 Reassembly instructions!



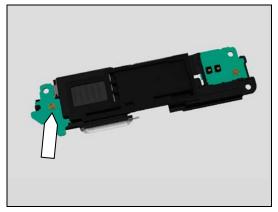
#### **REMOVAL**

Remove the PBA Cellular Sub with the Front Opening Tool.



#### **INSTALLATION**

Place a new PBA Cellular Sub using fingers in the cavity of Loudspeaker Holder.

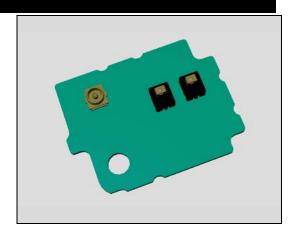






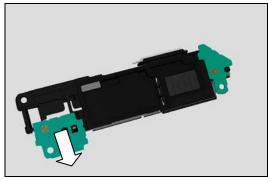
### 4.41 PBA WLAN Sub

Follow the 3.1 – 3.2, 3.6 and 3.8 Disassembly instructions! Carry out the Removal as described below! Prepare a new PBA WLAN Sub!
Carry out the Installation as described below!
Follow the 5.3, 5.5 and 5.9 - 5.11 Reassembly instructions!



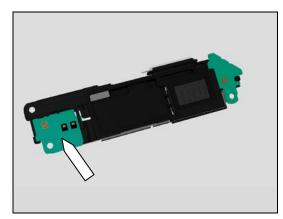
#### **REMOVAL**

Remove the PBA WLAN Sub with the Front Opening Tool.



#### **INSTALLATION**

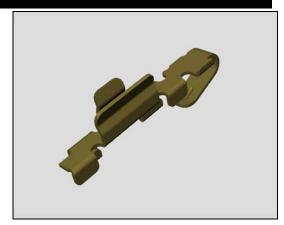
Place a new PBA WLAN Sub using fingers in the cavity of Loudspeaker Holder.





### 4.42 Plate Contact RF A

Follow the 3.1 - 3.6 and 3.9 Disassembly instructions! Carry out the Removal as described below! Prepare a new Holder Magnetic Charger Connector! Carry out the Installation as described below! Follow the 5.2, 5.5 and 5.9-5.11 Reassembly instructions!

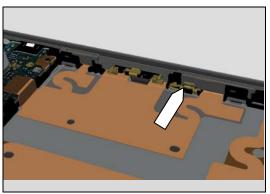


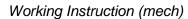
#### **REMOVAL**

Detach to remove the Holder Magnetic Charger Connector with a pair of tweezers.

#### **INSTALLATION**

Place a new Holder Charger Connector using a pair of tweezers

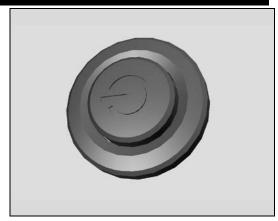






### 4.43 Power Key

Follow the 3.1 – 3.10 Disassembly instructions! Follow the 4.35, 4.18 Removal instructions! Carry out the Removal as described below! Prepare a new Power Key! Carry out the Installation as described below! Follow the 4.18, 4.35 Installation instructions! Follow the 5.1 - 5.11 Reassembly instructions!

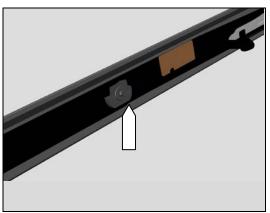


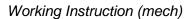
#### **REMOVAL**

Pull to remove the Power Key with fingers

#### **INSTALLATION**

Insert a new Power Key with fingers

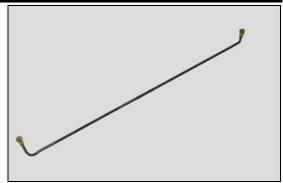






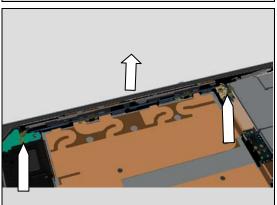
### 4.44 RF Cable B

Follow the 3.1 - 3.2, 3.6 and 3.9 Disassembly instructions! Carry out the Removal as described below! Prepare a new RF Cable B! Carry out the Installation as described below! Follow 5.5 and 5.9-5.11 Reassembly instructions!



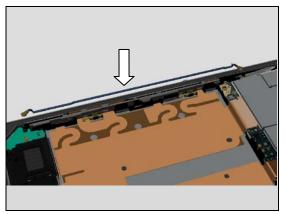
#### **REMOVAL**

Release the RF Cable B with the Flex Film Assembly Tool. Note! Careful not to break the two connectors!



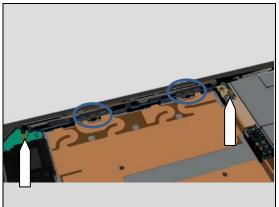
#### **INSTALLATION**

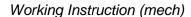
Place a new RF Cable B using a Flex Film Assembly Tool.



Connect the two connectors with fingers

Note! Important that the silver parts of the RF Cable B is placed in the two sockets.

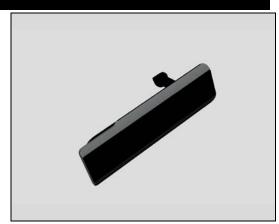






# 4.45 SD Cap

Carry out the Removal as described below! Prepare a new SD Cap! Carry out the Installation as described below!

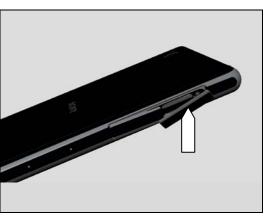


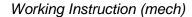
#### **REMOVAL**

Detach to remove the SD Cap with fingers

#### **INSTALLATION**

Place a new SD Cap with fingers and a pair of tweezers

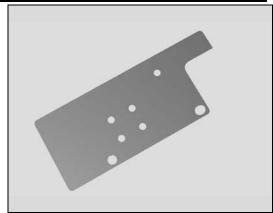






# **4.46 Sheet Conductive Charger FPC**

Follow the 3.1-3.10 Disassembly instructions!
Follow the 4.30 Removal instructions!
Carry out the Removal as described below!
Prepare a new Sheet Conductive Charger FPC!
Follow the 4.30 Installation instructions!
Carry out the Installation as described below!
Follow the 5.1 - 5.11 Reassembly instructions!



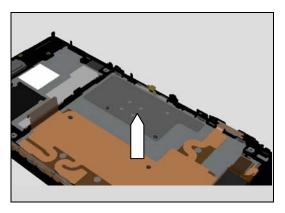
#### **REMOVAL**

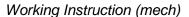
Detach to remove the Sheet Conductive Charger FPC with Nylon Pointer.

Scrap! Not to be reused!

#### **INSTALLATION**

Place a new Sheet Conductive Charger FPC using a Flex Film Assembly Tool.

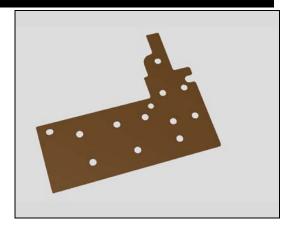






# 4.47 Sheet Conductive Relay FPC

Follow the 3.1-3.10 Disassembly instructions! Follow the 4.32 Removal instructions! Carry out the Removal as described below! Prepare a new Sheet Conductive Relay FPC! Follow the 4.32 Installation instructions! Carry out the Installation as described below! Follow the 5.1 - 5.11 Reassembly instructions!



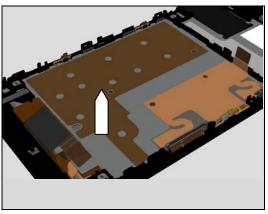
#### **REMOVAL**

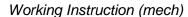
Detach to remove the Sheet Conductive Charger FPC with Nylon Pointer.

Scrap! Not to be reused!

#### **INSTALLATION**

Place a new Sheet Conductive Charger FPC using a Flex Film Assembly Tool.







# 4.48 Sheet Thermal A

Follow the 3.1-3.7 Disassembly instructions! Carry out the Removal as described below! Prepare a new Sheet Thermal A! Carry out the Installation as described below! Follow the 5.4 - 5.11 Reassembly instructions!

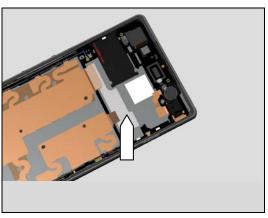


#### **REMOVAL**

Detach to remove the Sheet Thermal A with Dentist Hook. Scrap! Not to be reused!

#### **INSTALLATION**

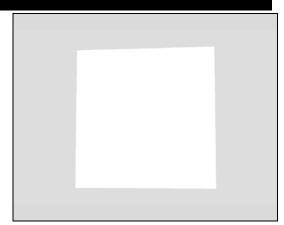
Place a new Sheet Thermal A using a Flex Film Assembly Tool





# 4.49 Sheet Thermal B

Follow the 3.1-3.7 Disassembly instructions! Carry out the Removal as described below! Prepare a new Sheet Thermal B! Carry out the Installation as described below! Follow the 5.4 - 5.11 Reassembly instructions!

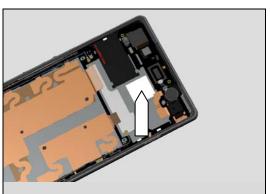


#### **REMOVAL**

Detach to remove the Sheet Thermal B with Dentist Hook. Scrap! Not to be reused!

#### **INSTALLATION**

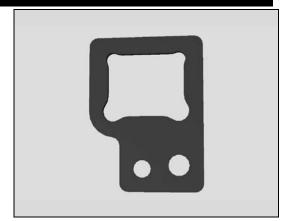
Place a new Sheet Thermal B using a Flex Film Assembly Tool





# 4.50 Sheet WP 2<sup>nd</sup> Mic

Follow the 3.1 Disassembly instructions!
Carry out the Removal as described below!
Prepare a new Sheet WP 2<sup>nd</sup> Mic!
Carry out the Installation as described below!
Follow the 5.10 - 5.11 Reassembly instructions!



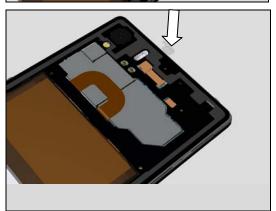
#### **REMOVAL**

Detach to remove the Sheet WP 2<sup>nd</sup> Mic with Dentist Hook. Scrap! Not to be reused!



#### **INSTALLATION**

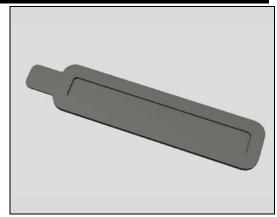
Place a new Sheet WP 2<sup>nd</sup> Mic using a Flex Film Assembly Tool





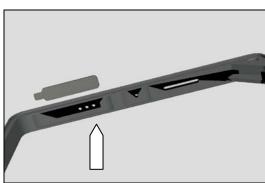
### 4.51 Sheet WP Check

Follow the 3.1-3.10 Disassembly instructions! Carry out the Removal as described below! Prepare a new Sheet WP Check! Carry out the Installation as described below! Follow the 5.1 - 5.11 Reassembly instructions!



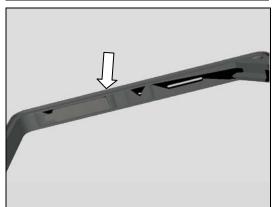
#### **REMOVAL**

Detach to remove the Sheet WP Check with Dentist Hook. Scrap! Not to be reused!



#### **INSTALLATION**

Place a new Sheet WP Check using a Flex Film Assembly Tool







### 4.52 SIM Cap

Carry out the Removal as described below! Prepare a new SIM Cap! Carry out the Installation as described below!

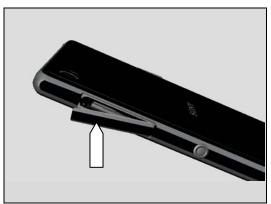


#### **REMOVAL**

Detach to remove the SIM Cap with fingers

#### **INSTALLATION**

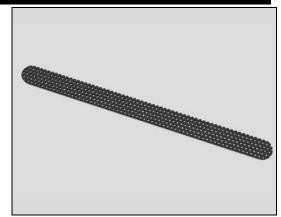
Place a new SIM Cap with fingers and a pair of tweezers





### 4.53 Speaker Panel

Carry out the Removal as described below! Prepare a new Speaker Panel! Carry out the Installation as described below!

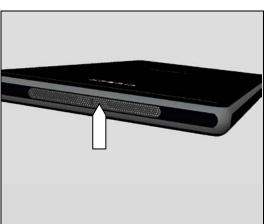


#### **REMOVAL**

Detach to remove the Speaker Panel with the Dentist Hook... Scrap! Not to be reused!

#### **INSTALLATION**

Place a new Speaker Panel with fingers and press for 10 sec over the panel.

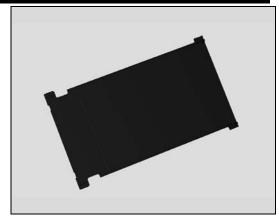






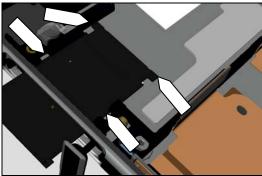
## 4.54 Tray Core Unit Label

Follow the 3.1-3.7 Disassembly instructions!
Follow the 4.25 Removal instructions!
Carry out the Removal as described below!
Prepare a new Tray Core Unit Label!
Carry out the Installation as described below!
Follow the 4.25 Installation instructions!
Follow the 5.4 - 5.11 Reassembly instructions!



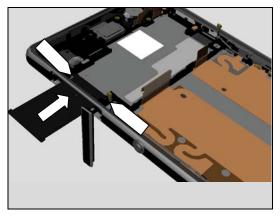
#### **REMOVAL**

Open the SIM Cap with fingers. Pull out the Tray Core Unit Label with fingers and lift up the Tray Core Unit Label around the arrows before releasing it.

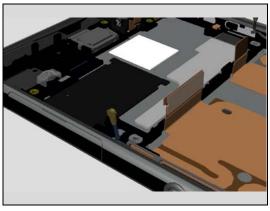


#### **INSTALLATION**

Place a new Tray Core Unit Label and put it in the cavity.



Close the SIM Cap.

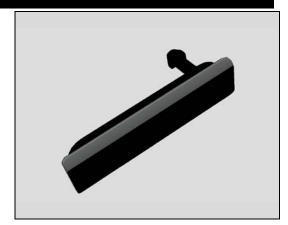






# 4.55 USB Cap

Carry out the Removal as described below! Prepare a new USB Cap! Carry out the Installation as described below!

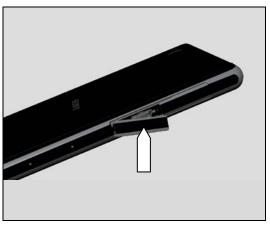


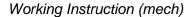
#### **REMOVAL**

Detach to remove the USB Cap with fingers

#### **INSTALLATION**

Place a new USB Cap with fingers and a pair of tweezers

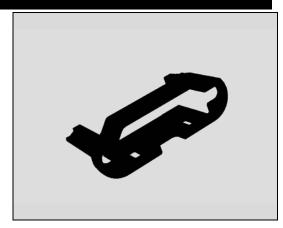






### 4.56 USB Holder

Follow the 3.1-3.7 Disassembly instructions! Carry out the Removal as described below! Prepare a new USB Holder! Carry out the Installation as described below! Follow the 5.4 - 5.11 Reassembly instructions!

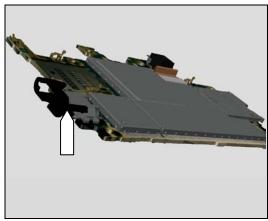


#### **REMOVAL**

Detach to remove the USB Holder with fingers

#### **INSTALLATION**

Place a new USB Holder with fingers.







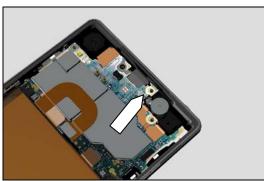
### 4.57 Vibrator

Follow the 3.1 - 3.2 Disassembly instructions! Carry out the Removal as described below! Prepare a new Vibrator! Carry out the Installation as described below! Follow the 5.9 - 5.11 Reassembly instructions!

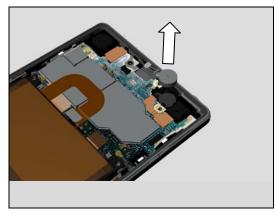


#### **REMOVAL**

Disconnect the connector of Vibrator by using a Front Opening Tool.



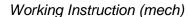
Detach to remove the Vibrator with Front Opening Tool



#### **INSTALLATION**

Place a new Vibrator into the cavity using fingers and connect to Main PBA

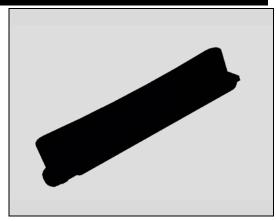






# 4.58 Volume Key

Follow the 3.1-3.10 Disassembly instructions!
Follow the 4.35 and 4.18 Removal instructions!
Carry out the Removal as described below!
Prepare a new Volume Key!
Carry out the Installation as described below!
Follow the 4.18 and 4.35 Installation instructions!
Follow the 5.1 - 5.11 Reassembly instructions!

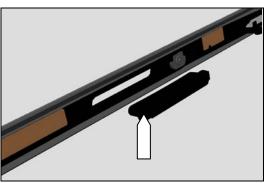


#### **REMOVAL**

Pull to remove the Volume Key with fingers

#### **INSTALLATION**

Insert a new Volume Key with fingers





# 4.59 Board Swap - Replacement

Follow the 3.1 to 3.7 Disassembly instructions! Follow the 4.23 and 4.56 Removal instructions! Reuse the Camera, Chat Camera and Battery! Replace the Swap Board.



Follow the 4.23 and 4.56 Installation instructions!
Follow the 5.4 to 5.11 Reassembly instructions!
Press the Key On/Off to power on the phone, place unit on flat desk and wait 4 minutes until system boot up has been completed.

Please DO NOT move the phone during starting up until "Select Language" menu is shown on the display!

After "Select Language" menu, turn off the phone.

Follow the Calibration chapter 3.1 and 3.2 in 1277-9815

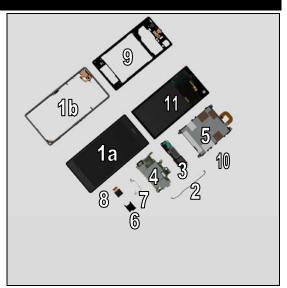
Test Instruction – mechanical



#### C6902, C6903, C6906, L39h

The Re-assembly is done to the following modules:

- 1. Front Cover (a) and Main Frame Assy (b)
- 2. RF Cable A
- 3. Loudspeaker Holder
- 4. Main PBA
- 5. Battery
- 6. SIM Tray
- 7. Shield Camera
- 8. Camera
- 9. Rear Cover Assy
- 10. Sheet Battery
- 11. Window Back



# 5.1 Front Cover and Main Frame Assy

Follow the 4.17 removal and installation instruction to replace a new Adhesive WP Main Frame Assy

Place the Front Cover on the Main Frame Assy



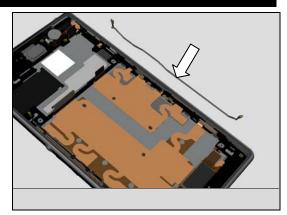
Press with fingers to secure the contact of adhesive between Front Cover and Main Frame Assy



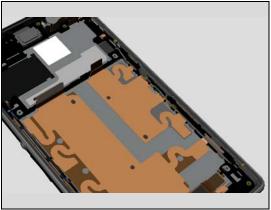


### 5.2 RF Cable A

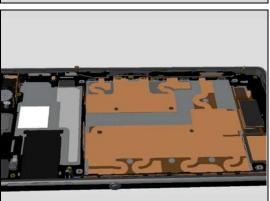
Place the RF Cable A to the Main Frame Assy



Place a new Cable RF Cable A using a Flex Film Assembly Tool.

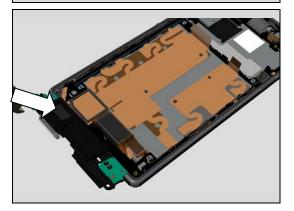


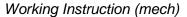
Note! Important that the silver parts of the RF Cable A is placed in the three sockets.



# 5.3 Loudspeaker Holder

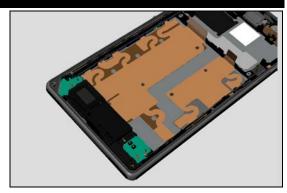
Place the Loudspeaker Holder to Main Frame Assy



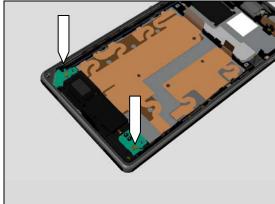




Use fingers to secure the position of Loudspeaker Holder

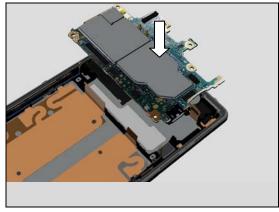


Use fingers to secure positions of RF Cable A and RF Cable B



### 5.4 Main PBA

Place the Main PBA gently into the cavity

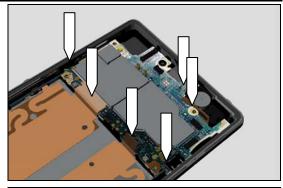


Use fingers to secure position of Main PBA





Press with fingers to secure the position of BtB conectors, RF Cable A and RF Cable B



# 5.5 Battery

Place the Battery gently into the cavity

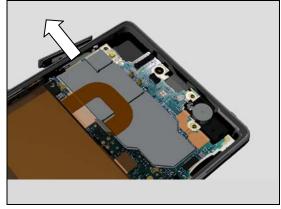


Use fingers to secure the position of the Battery



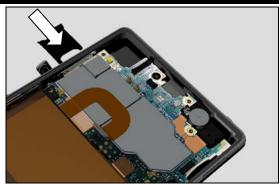
# 5.6 SIM Tray

Open SIM Cap.



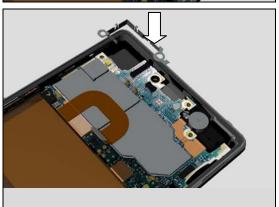


Use with fingers to secure the SIM Tray then close SIM Cap

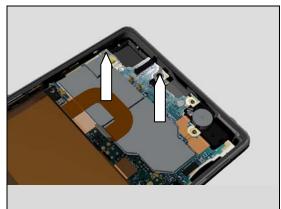


### 5.7 Shield Camera

Use a pair of tweezers to position Shield Camera into the cavity

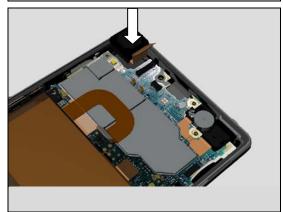


Secure the position with a pair of tweezers



### 5.8 Camera

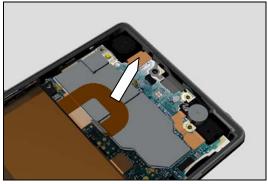
Use fingers to position Camera into the cavity





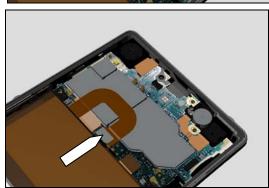


Press with fingers to secure the contact of Camera



# 5.9 Rear Cover Assy

Press with fingers to secure the contact of Battery

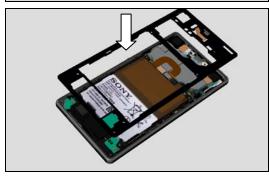


Follow the 4.15 removal and installation instruction to replace a new Adhesive WP Cover Rear

Use Isopropyl Alcohol - 99 % for clean around the edges of Main Frame Assy before assembly Rear Cover Assy



Place the Rear Cover Assy on the frame



Press with fingers to secure the contact of Chat Camera

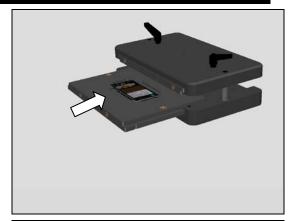




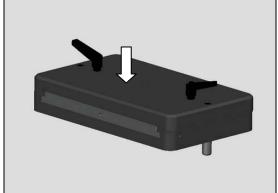


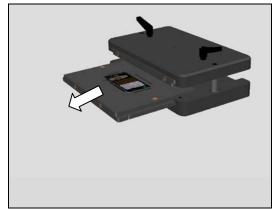
Upper inlay = Rear Cover Press Inlay Lower inlay = Bottom Press Inlay

Place the phone in the Bottom Press Inlay and follow the instruction in 1003-9107 Tool Catalogue – mechanical and document Toothed Rack Press Instruction for use.

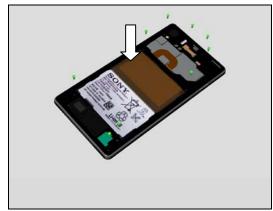


Press it with a pressure value of 483N + -50 N / 10 sec (pressure value is adjust from 600N because of the weight of the press fixture)





Apply 13 Ncm torque when tightening the Screw 3.5x1.4 with Torx Bits T4







# 5.10 Sheet Battery

Use a Flex Film Assembly Tool and fingers for assembly the Sheet Battery on the Battery



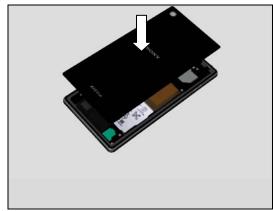
### 5.11 Window Back

Follow the 4.18 removal and installation instruction to replace a new Adhesive WP Window Back

Use Isopropyl Alcohol - 99 % for clean around the edges of Rear Cover Assy before assembly Window Back

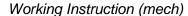


Place the Window Back on the Rear Cover Assy.



Make sure of an good alignment so the Window Back is centered

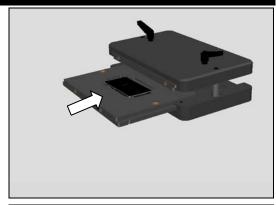




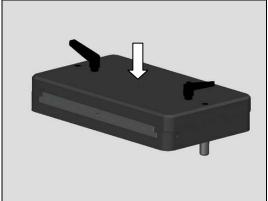


Upper inlay = Window Back Press Inlay Lower inlay = Bottom Press Inlay

Place the phone in the Bottom Press Inlay and follow the instruction in 1003-9107 Tool Catalogue – mechanical and document Toothed Rack Press Instruction for use.



Press it with a pressure value of 483N + -50 N / 10 sec. (pressure value is adjust from 600N because of the weight of the press fixture)





# 6 Revision History

Rev.	Date	Changes / Comments
1	2013-Sept-05	First Release
2	2013-Sept-12	System Problem